

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF United States Patent and Trademark Address: COMMISSIONER FOR PATENT P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/059,235	01/31/2002	Kiyoshi Nakade	2002_0087A	6549
513	7590 09/08/2004		EXAM	INER
WENDERC	TH, LIND & PONAC	MUROMOTO JR, ROBERT H		
2033 K STRI SUITE 800	EET N. W.		ART UNIT	PAPER NUMBER
	ON, DC 20006-1021		3765	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		10 1			
	Application No.	Applicant(s)			
	10/059,235	NAKADE, KIYOSHI			
Office Action Summary	Examiner	Art Unit			
	Robert H Muromoto, Jr.	3765			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with t	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to the period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a reply n. a reply within the statutory minimum of thirty (30 eriod will apply and will expire SIX (6) MONTHS tatute, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2	20 August 2004.				
2a) ☐ This action is FINAL . 2b) ☑	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for all	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-22 is/are pending in the applica	tion.				
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.	·				
6)⊠ Claim(s) <u>1-3,8,9 and 16-22</u> is/are rejected.					
7)⊠ Claim(s) <u>4-7 and 10-15</u> is/are objected to.					
8) Claim(s) are subject to restriction ar	nd/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	niner.				
10) The drawing(s) filed on is/are: a)	accepted or b) objected to by t	he Examiner.			
Applicant may not request that any objection to	the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the co	rrection is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the	e Examiner. Note the attached Of	fice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International Bu 	nents have been received. nents have been received in Appli priority documents have been rec	cation No			
* See the attached detailed Office action for a	` ' ''	eived.			
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Sumr	nary (PTO-413) ail Date			
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	·	nal Patent Application (PTO-152)			

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert et al., in view of Himes.

In the instant application, applicant discloses "A conventional slasher is provided with a moistening device for moistening warp yarns before sizing the warp yarns. Moistening the warp yarns before sizing increases the effect of sizing subsequent to moistening and hence the necessary amount of size can be reduced. The moistening device immerses warp yarns in water contained in a water tank and squeezes the warp yarns with squeeze rollers…". So the recited limitations of claim 1 are all known as conventional elements as recited by the applicant except for the recited moistening unit of the instant invention using a sprinkling or spray system rather than a water tank.

However, Lambert et al. teaches a low wet pickup fabric finishing apparatus.

Lambert uses an atomized spray system to produce a low wet pickup, uniformly finished fabric. Lambert uses two spray nozzles on opposing sides of the fabric to produce a

Application/Control Number: 10/059,235

Art Unit: 3765

uniform spray pattern. The resultant fabric has a uniform finish and is produced with lower energy costs not seen in previous methods for wet finishing fabric.

As fabrics are a conglomeration of yarns, it is considered by the examiner that wet finishing of fabrics is well within the same problem solving area as wetting of warp yarns.

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to use a spray system to achieve a uniform wet pickup on yarns and fabrics.

As for the recitation that "hot water" is sprinkled on the warp yarns, it is well known that textile processing such as slashing and sizing is performed at relatively high temperatures so it would have been obvious to one of ordinary skill in the art to use hot water as the moistening solution for a slashing process.

Although Lambert teaches essentially all of the limitations of the instant invention, Lambert does not teach spraying the fabric from above the fabric.

However, Lambert states, "It is further obvious that negative pressure means (not shown) can be provided to draw the solution cloud from chamber 1 through opening 5 and into contact with fabric 8 as an alternative to the positive pressure description set forth above (col. 3, lines 38-42)." Additionally, Himes does teach a fluid delivery apparatus, "With reference to FIG. 3, it will be seen that the upper dispenser 17 is disposed above the lower dispenser 18 for conveyance of articles 11 therebetween in a longitudinal, generally horizontal path of travel, as shown (col. 4, lines 32-36)." Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to provide

Application/Control Number: 10/059,235

Art Unit: 3765

spray from above the fabric since fabric is conveyed in a longitudinal, horizontal path of travel as well.

Allowable Subject Matter

Claims 4-7 and 10-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: claims 4-7 and 10-15 would be allowable because these claims require an otherwise conventional slasher machine to include a nozzle spray system with specific construction orientations, adjustability, and movability.

Response to Arguments

Applicant's arguments filed 6/25/2004 have been fully considered but they are not persuasive. Applicant argues that there is no motivation to combine Himes and Lambert; and that Lambert could not be modified to spray from above. The examiner disagrees. Lambert states that an obvious variant would be to use a negative pressure system rather than the positive pressure system, shown in the reference. A negative pressure system implies that the manifold system would be above the fabric sheet since one of ordinary skill in the art would realize that a negative pressure system would be much less effective working against the force of gravity. As evidence the examiner has cited Himes which shows a fluid delivery system that uses spray nozzles from above and below the sheet. The citation of Himes teaches the configuration of having a spray

Application/Control Number: 10/059,235 Page 5

Art Unit: 3765

nozzle from above a conveyed sheet of material. A fabric being a conveyed sheet of material, Himes and Lambert are clearly in the same problem solving area.

Looking to the modification of Lambert, one of ordinary skill in the art would simply flip the unit upside down and use a negative pressure system. This modification, which was stated as an obvious variant in Lambert is entirely feasible. Since these are the only arguments presented by the applicant the rejection remains and is considered to be proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert H Muromoto, Jr. whose telephone number is 703-306-5503. The examiner can normally be reached on 8-530, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Calvert can be reached on 703-305-1025. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

